



Air Force Materiel Command



War-Winning Capabilities ... On Time, On Cost

Service Depot Planning and Implementation Air Force UID Strategy



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U.S. AIR FORCE

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Integrity - Service - Excellence



Overview



AFMC

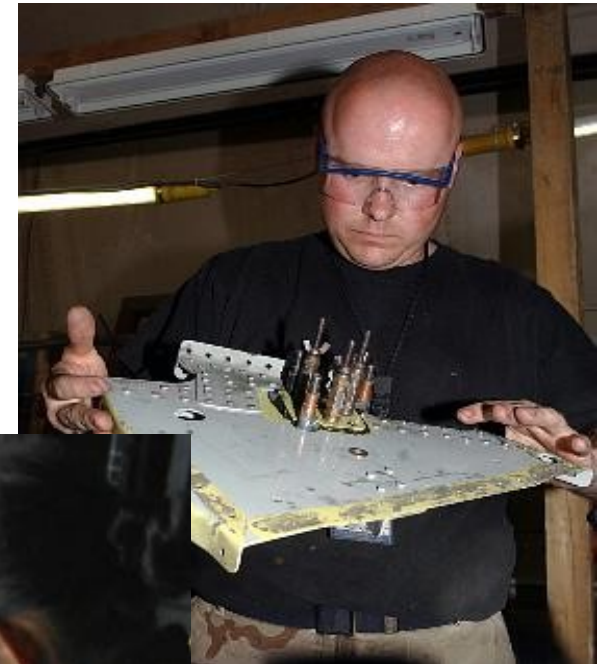
UID Compliance

Part Marking Equipment

Depot Capability

Way Ahead

Summary





UID Compliance: Depot



- **OSD Policy for Program Plans, Legacy and Depot Marking, 23 Dec 04 memo**
 - **Start marking parts**
 - **Ogden ALC - Jul 05**
 - **Oklahoma City ALC - Jul 05**
 - **Warner-Robins ALC - Jul 05**
 - **OSD equipment**
 - **Delivered for durability and survivability testing**
 - **Report delivered - landing gear difficult to direct mark**
 - **OSD to update to production capability**
 - **AFMC Part Marking Pathfinder Project to be leveraged**
 - **AFMC/LGY implementing overarching depot plan with inputs from each ALC**

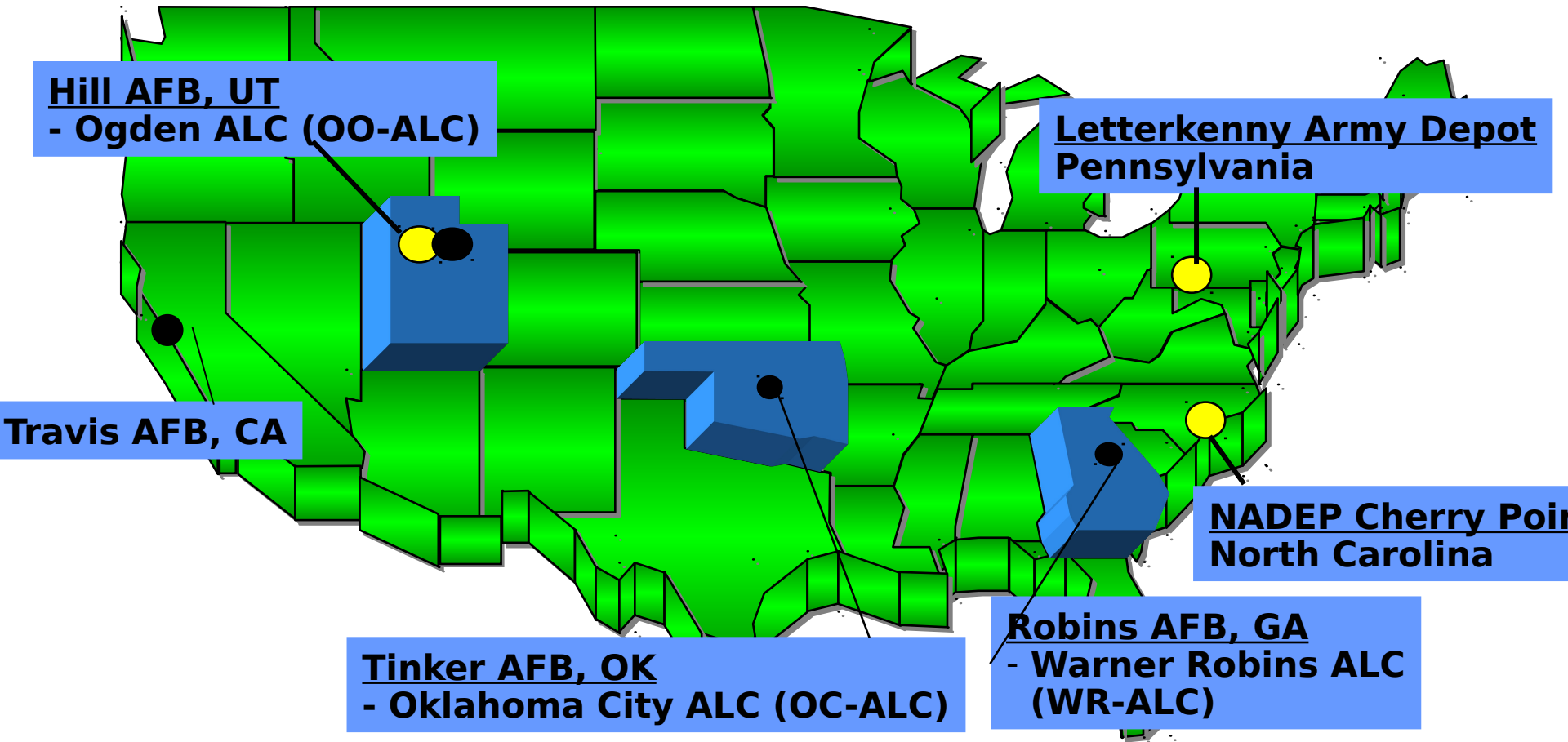


Part Marking Equipment



AFMCC

- = Locations of OSD Delivered Carts
- = Locations of AFMC Part Marking Equipment





Legacy Assets Part Marking



AFMC

- AFMC UID Part Marking Pathfinder
 - Goal: develop corporate expertise, understand process impacts, and costs for long term planning
 - Contract awarded to Core6, Feb 05
 - Delivering laser and dot peen equipment
 - Establishing in-house equipment capability
 - Allows both data plate and direct part marking
 - Provides training and 1 year of sustainment
 - Delivery to three ALCs & Travis AFB
- Integrate OSD equipment & Pathfinder
 - OSD equipment additional capability for Air Force
 - OSD to provide funding for update
- Pathfinder results to be presented
 - Determine in-service marking implementation
 - Define FY08 POM requirements



Example



Example



Capability



AFMC

- **Equipment in place and supported**
- **Safety office certified equipment safe for normal use**
- **People are trained**
- **Ability to verify acceptable UII using contractor delivered equipment**
- **Local serialization schema determined**
- **Data plates available**
- **Parts selected for initial data marking capability**
- **Capability to capture UII data for transfer to Registry**



Capability



AFMC

- **Processes established to convey UII requirement to Maintenance**
- **Engineering processes established for cognizant engineering authority to review parts**
 - **How to mark (laser etch or label, or dot peen for example)**
 - **Where to mark (data plate or direct marking)**
 - **Size of 2D mark**
- **Processes established in Maintenance to carry out marking requirement**
- **Processes established to record UII and postured for communication with DoD Registry**
- **Sufficient candidate parts identified to allow for marking between 80-100 parts per week for at least 6 months with follow-on effort to identify candidate parts for business as usual environment**



Way Ahead



AFMC

- **OSD evolutionary approach to SNT/UID**
 - **Programs responsible to mark all items by 2010**
 - **Excludes systems & items to be removed from inventory before 2010**
 - **Develop Serialized Item Management (SIM)**
 - **Identify and develop Automated Information Systems solutions**
- **For Air Force**
 - **Exploring temporary selective applications -warranty/reliability**
 - **Develop SIM applications with MAJCOMs**



Summary



AFMC

AFMC has approach for legacy UID requirements

UID Pilot Project will assist legacy item marking planning

SNT capabilities are on their way



AFMC

BACKUP SLIDES



Engineering Impacts



- **Program Manager/Supply Chain Manager**
 - **Determine parts to be marked in addition to \$5,000 acquisition cost**

- **Cognizant Engineering Authority**
 - **Establish where to mark, how to mark, update drawings**
 - **Coordinate with maintenance activity, answer questions, etc.**
 - **Provide Part Marking Pathfinder Support**
 - **Unfunded Mandate**
 - **Develop estimates for inclusion in the FY08 POM for both WCF (MSD) and Non-WCF**

AFMC Part Marking Pathfinder Goals

- How many man-hours were used for part marking a data plate?
- What was the average cost of part marking using a data plate?
- How many man-hours were used for direct part marking?
- What was the average cost of direct part marking?
- Where is the best location for the part marking equipment?
- What level of training is needed to train part marking technicians?
- Is the repair process seriously impacted?
- What sizes and types of data plate stocks are used? Are they all common stock items?
- What are the minimum facility space requirements for part marking, including staging?
- How many technicians were trained? How many are qualified to mark parts?
- How many parts per month were marked?
- How many hours per week was the equipment used for training, production and preventative maintenance.
- Is first shift the best shift to mark parts?
- Is Help Desk coverage on one shift adequate?
- Is the database easy to maintain?
- Are UI's easy to construct?
- Was the equipment easy to use?
- Was the training adequate?
- What improvements could be made to the training program? Engineering lead time / processes
- What happens if we screw up a direct part mark
- How will production be impacted
- What is the ALC reaction (resistance, embrace)
- Just how long does it REALLY take (varying messages from vendor community)
- How can the process be improved?
- What equipment is needed for expansion of capability in FY06 and where will it be placed?
- MA to determine costs to customers, e.g., DMAG and PDM line for FY08 POM consideration
- What do we do when the training is complete and the candidate parts are all marked?